



Water-Data Report 2008

0209699999 B. EVERETT JORDAN LAKE, HAW RIVER ARM NEAR HANKS CHAPEL, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 35°42'19", long 79°05'04" referenced to North American Datum of 1983, Chatham County, NC, Hydrologic Unit 03030002, 2.2 mi below bridge on U.S. Highway 64, and 2.2 mi east of Hanks Chapel.

DRAINAGE AREA.--1,303 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991 to current year. Prior to October 1993, published as "Haw River at U.S. Highway 64 near Pittsboro, NC" (station 0209699980). October 1993 to September 2006, published as "B. Everett Jordan Lake, Haw River arm, above B. Everett Jordan dam" (station 0209719700).

REMARKS.--Station operated to define water quality as part of a regional surface-water quality assessment. Samples for nutrient, pheophytin *a* and chlorophyll *a* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique. Prior to October 1, 2005, samples for chlorophyll *a* were analyzed using a high-performance liquid chromatography method.

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
 Part 1 of 4
 [Remark codes: <, less than; E, estimated.]

Date	Time	Color, water, filtrd, Pt-Co units (00080)	Sam- pling depth, meters (00098)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	Dis- solved oxygen, water, unfiltrd field, std units (00400)	pH, water, unfiltrd field, std units (00095)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)			Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)
										Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)				
Oct																
16...	1045	40	1.0	.70	762	10.2	116	8.2	371	21.3	40	9.24	4.00			
16...	1050	--	2.0	--	762	10.0	111	8.3	445	20.4	--	--	--			
16...	1055	--	2.5	--	762	9.2	102	8.1	506	19.9	--	--	--			
Dec																
06...	1245	--	2.2	1.10	--	--	--	--	--	--	--	--	--			
06...	1250	40	1.0	--	765	10.9	92	7.9	355	7.9	43	10.8	3.83			
06...	1300	--	2.0	--	765	10.7	89	7.9	370	7.6	--	--	--			
Feb																
26...	1315	--	2.8	1.40	--	--	--	--	--	--	--	--	--			
26...	1320	25	1.0	--	743	10.9	100	8.7	226	10.0	38	9.50	3.54			
26...	1325	--	2.0	--	743	10.9	98	8.6	225	9.8	--	--	--			
26...	1330	--	4.0	--	743	9.5	85	7.6	220	8.9	--	--	--			
Apr																
22...	0945	--	1.4	.70	--	--	--	--	--	--	--	--	--			
22...	0950	40	1.0	--	756	9.0	94	7.4	191	16.9	36	8.61	3.63			
22...	0955	--	2.0	--	756	8.4	88	7.2	187	16.8	--	--	--			
22...	1000	--	4.0	--	756	5.1	52	7.1	139	15.9	--	--	--			
Jun																
19...	1230	--	1.4	.70	--	--	--	--	--	--	--	--	--			
19...	1235	40	1.0	--	757	6.5	83	7.7	237	27.8	36	8.45	3.60			
19...	1240	--	2.0	--	757	4.4	56	7.2	243	27.4	--	--	--			
19...	1245	--	3.0	--	757	3.6	46	7.0	254	26.8	--	--	--			
Aug																
06...	1000	--	1.6	.80	--	--	--	--	--	--	--	--	--			
06...	1005	70	1.0	--	756	9.2	123	8.7	335	29.8	36	8.56	3.55			
06...	1010	--	2.0	--	756	7.8	103	8.2	338	29.7	--	--	--			
06...	1015	--	3.0	--	756	6.4	84	7.6	348	29.6	--	--	--			

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
 Part 2 of 4
 [Remark codes: <, less than; E, estimated.]

Date	Potas-	ANC,	Bicar-					Residue	Ammonia	Nitrate		
	sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	wat unf infl pt	bonate, wat unf infl pt	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO2 (00945)	Sulfate water, filtrd, mg/L (00945)	on evap. at 180degC wat flt (70300)	+ org-N, unfltrd mg/L (00625)	Ammonia water, fltrd, mg/L (00608)	Nitrate + nitrite water, fltrd, mg/L (00631)
Oct												
16...	6.86	61.8	64	78	45.9	.47	3.23	33.9	223	1.1	E.018	.024
16...	--	--	--	--	--	--	--	--	--	1.1	.020	.258
16...	--	--	--	--	--	--	--	50.1	--	.98	.049	.438
Dec												
06...	--	--	--	--	--	--	--	--	--	.81	.076	.976
06...	6.54	53.2	54	66	42.8	.44	3.27	34.3	210	--	--	--
06...	--	--	--	--	--	--	--	35.8	--	.77	.075	.978
Feb												
26...	--	--	--	--	--	--	--	--	--	.53	.032	.581
26...	3.67	27.4	35	42	30.6	.20	2.08	19.3	127	--	--	--
26...	--	--	--	--	--	--	--	--	--	.50	.039	.583
26...	--	--	--	--	--	--	--	18.6	--	.78	.169	.513
Apr												
22...	--	--	--	--	--	--	--	--	--	.59	<.020	.640
22...	3.33	22.4	38	46	18.7	.17	6.59	20.2	152	--	--	--
22...	--	--	--	--	--	--	--	--	--	.67	<.020	.574
22...	--	--	--	--	--	--	--	14.9	--	.79	.123	.363
Jun												
19...	--	--	--	--	--	--	--	--	--	.97	<.020	.080
19...	4.59	28.5	46	54	23.3	.25	4.14	20.8	129	--	--	--
19...	--	--	--	--	--	--	--	--	--	.91	.022	.102
19...	--	--	--	--	--	--	--	20.7	--	.98	.195	.142
Aug												
06...	--	--	--	--	--	--	--	--	--	.94	<.020	.043
06...	6.13	49.2	55.4	67.5	37.6	.38	3.00	31.1	189	--	--	--
06...	--	--	--	--	--	--	--	--	--	.94	<.020	.049
06...	--	--	--	--	--	--	--	31.6	--	.88	E.014	.120

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
 Part 3 of 4
 [Remark codes: <, less than; E, estimated.]

Date	Ortho-phosphate, water, filtrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L as P (00665)	Organic carbon, water, filtrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, µg/L (70953)	Pheophytin, µg/L (62360)	Alum-inum, water, unfltrd recoverable, µg/L (01105)	Arsenic water, unfltrd µg/L (01002)	Cadmium water, unfltrd µg/L (01027)	Chromium, water, unfltrd recoverable, µg/L (01034)	Cobalt water, unfltrd µg/L (01037)	Copper, water, unfltrd µg/L (01042)	Iron, water, unfltrd µg/L (01045)
Oct													
16...	E.004	.104	6.5	9.0	44.8	17.0	101	.66	.06	E.38	.66	E1.1	285
16...	E.004	.104	--	--	--	--	--	--	--	--	--	--	350
16...	.006	.108	6.8	--	--	--	--	--	--	--	--	--	452
Dec													
06...	E.006	.065	--	--	10.4	7.0	--	--	--	--	--	--	--
06...	--	--	6.2	8.5	--	--	--	--	--	--	--	--	290
06...	.006	.062	6.2	--	--	--	--	--	--	--	--	--	292
Feb													
26...	.018	.070	--	--	4.2	5.8	--	--	--	--	--	--	--
26...	--	--	5.0	6.2	--	--	--	--	--	--	--	--	449
26...	.019	.066	--	--	--	--	--	--	--	--	--	--	455
26...	.020	.099	5.3	--	--	--	--	--	--	--	--	--	923
Apr													
22...	.017	.092	--	--	4.7	7.0	--	--	--	--	--	--	--
22...	--	--	--	7.2	--	--	253	E.49	.09	1.0	.94	2.5	907
22...	.012	.099	--	--	--	--	--	--	--	--	--	--	965
22...	.009	.115	--	--	--	--	--	--	--	--	--	--	888
Jun													
19...	E.004	.099	--	--	E30.7	E13.2	--	--	--	--	--	--	--
19...	--	--	6.5	9.0	--	--	--	--	--	--	--	--	358
19...	E.004	.097	--	--	--	--	--	--	--	--	--	--	390
19...	.026	.155	7.1	--	--	--	--	--	--	--	--	--	895
Aug													
06...	E.005	.096	--	--	34.2	12.8	--	--	--	--	--	--	--
06...	--	--	6.5	7.8	--	--	--	--	--	--	--	--	180
06...	E.005	.090	--	--	--	--	--	--	--	--	--	--	190
06...	.007	.096	6.4	--	--	--	--	--	--	--	--	--	231

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
 Part 4 of 4
 [Remark codes: <, less than; E, estimated.]

Date	Mangan- Lead, water, unfltrd recover -able, μg/L (01051)	Manganese, water, unfltrd recover -able, μg/L (01055)	Mercury Mercury water, unfltrd recover -able, μg/L (71890)	Molyb- denum, water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01062)	Selen- ium, water, unfltrd recover -able, μg/L (01067)	Silver, water, unfltrd recover -able, μg/L (01147)	Zinc, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)
Oct									
16...	.24	108	<.010	<.010	4.7	3.1	.19	<.02	3.9
16...	--	106	--	--	--	--	--	--	--
16...	--	123	<.010	<.010	--	--	--	--	--
Dec									
06...	--	--	--	--	--	--	--	--	--
06...	--	96.9	E.006	E.006	--	--	--	--	--
06...	--	92.8	<.010	E.006	--	--	--	--	--
Feb									
26...	--	--	--	--	--	--	--	--	--
26...	--	63.6	.037	.049	--	--	--	--	--
26...	--	73.0	--	--	--	--	--	--	--
26...	--	299	E.008	E.008	--	--	--	--	--
Apr									
22...	--	--	--	--	--	--	--	--	--
22...	.79	145	E.009	.023	.9	2.3	.17	E.01	10.0
22...	--	232	--	--	--	--	--	--	--
22...	--	409	<.010	E.009	--	--	--	--	--
Jun									
19...	--	--	--	--	--	--	--	--	--
19...	--	125	<.010	<.010	--	--	--	--	--
19...	--	151	--	--	--	--	--	--	--
19...	--	292	<.010	<.010	--	--	--	--	--
Aug									
06...	--	--	--	--	--	--	--	--	--
06...	--	61.3	E.005	.013	--	--	--	--	--
06...	--	60.9	--	--	--	--	--	--	--
06...	--	74.3	E.006	E.006	--	--	--	--	--